MODEL BUILDING Adding CNN layers

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##Importing The ImageDataGenerator Library

import keras

 $from\ keras.preprocessing.image\ import\ Image Data Generator$

###Define the parameters/arguments for ImageDataGenerator class

 $train_datagen=ImageDataGenerator(rescale=1./255, shear_range=0.2, rotation_range=180, zoom_range=0.2, horizontal_flip=True)$

test_datagen=ImageDataGenerator(rescale=1./255)

###Applying ImageDataGenerator Functionality to trainset

 $x_train=train_datagen.flow_from_directory(r'C:\archive\Dataset\Dataset\train_set', target_size=(128,128), batch_size=32, class_mode='binary')$

###Applying ImageDataGenerator Functionality to testset

x_test=test_datagen.flow_from_directory(r'C:\archive\Dataset\Dataset\test_set',tar get_size=(128,128),batch_size=32,class_mode='binary')

##Import model building libraries

#To Define linear initialization import Sequential

from keras.models import Sequential

#To add layers import Dense

from keras.layers import Dense

#To create Convolution kernel import Convolution 2D

from keras.layers import Convolution2D

#import maxpooling layers

from keras.layers import MaxPooling2D

#import flatten Layer

from keras.layers import Flatten

import warnings

warnings.filterwarnings('ignore')

#Initializing the Model

model=Sequential()

##adding CNN layers

model.add(Convolution2D(32,(3,3),input_shape=(128,128,3),activation='relu'))

##adding maxpooling layer

model.add(MaxPooling2D(pool_size=(2,2)))

##adding flatten Layer

model.add(Flatten())